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RETEKESS TR110 INSTRUCTION MANUAL

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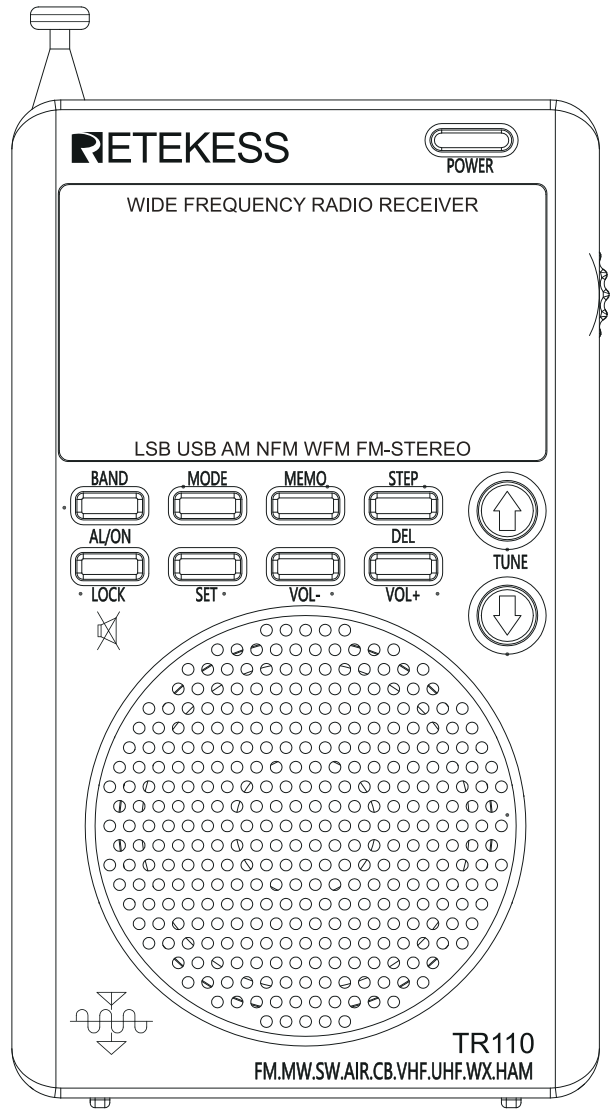

TR110

Instruction Manual

FM/MW/SW/AIR/CB/VHF（UHF）/UBD/WX/HAM
WIDE FREQUENCY RADIO RECEIVER

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EU Importer
Name: Germany Retevis Technology GmbH
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Thank you for purchasing the Digital Reconciliation Full-band Radio (Model: TR110) from Retekess. It is an entry-level product for radio lovers, and also the auxiliary product for cross-country activity lovers (VHF/UHF Station reception). It can provide flight information for those who often take planes. Please read this manual before use and keep it for future reference.

Packing List:

Name	Quantity
TR110 radio	1
In-ear headset	1
BL5C lithium battery 1000mAh 3.7V	1
USB Type-C cable	1
User manual	1
Arm hanging rope	1
Storage bag	1

Overview of TR110 Full-Band Radio:

This is a Wide Frequency radio with digital tuning: It can receive FM (frequency modulation)/MW (medium wave)/SW(short wave) (short-wave single-side with modulation mode)/SSB(Upper Sideband)/LSB(Lower sideband)/AIR(Aircraft band)/CB(City band) /VHF(very-high frequency band)/UHF (Ultra high frequency band)/UBD(user-defined band)/WX(North American National Weather Band)

1.The product is compact and easy to carry, a radio with powerful functions

2.Modern DSP digital demodulation technology is used to the full band radio, which improves the receiving sensitivity, selectivity and anti-mirror interference ability.

3.FM receiving range is 64MHz-108MHz. It is suitable for FM broadcast reception and global FM radio reception.

4.The single sideband SSB and the lower sideband LSB of the shortwave unilateral-band can receive signal independently.

5.3 kinds of station selection methods: Automatic search storage station (ATS), manual search pre-stored station (VM) and manual search for radio stations (VF).

6.It can display the radio address number; browse radio station frequency automatically and browse the frequency of pre-stored radio stations automatically; high speed scanning; shuttle tuning, shuttle stepping setting (support 10Hz), adjustable design of shuttle stepping digit (for select frequency quickly)

7.SET menu has the following advanced settings:

A.Adjustable antenna input attenuation controller circuit. ATT

B.Adjustable circuits of various bandwidth. BW

C.9 levels of squelch value can be adjusted. SQ

D.De-emphasis selections in FM band mode DE

8.Many step values of each wave band can be adjusted STEP

9.Celsius temperature/Fahrenheit can be displayed

10.Not only the automatic sleep time and automatic boot time can be set, but also the lock and mute state can be set.

11.Receiving state can display the noise limit ratio and the receiver sensitivity reference value.

12.The radio has a large memory space, so it can store up to 1000 radio stations. The product supports the manual deletion of memory stations.

13.External antenna 3.5mm input can be supported.

14.External speaker and3.5mm headphone output can be used.

15.Built-in loudspeaker and within USB Type-C charging port.

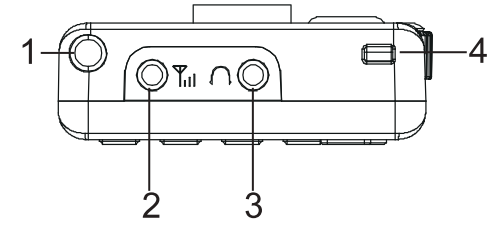
16.Removable 1000mAhBL5C lithium battery for long battery life

17.The backlight of the product is a warm orange light which can be used in the night/dark areas.

Description of product buttons:

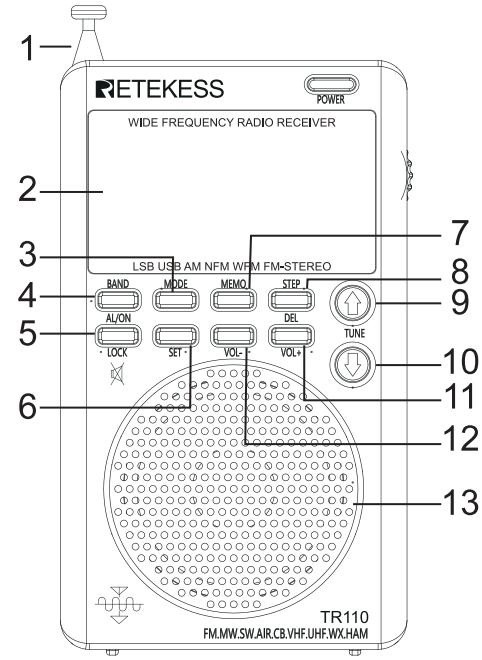
At the top of the product:

1. Telescopic Antenna Conntection
2. 3.5mm External Antenna Port
3. 3.5mm Headphone Jack
4. Lanyard Hole



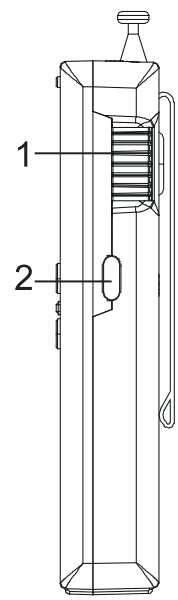
Front view:

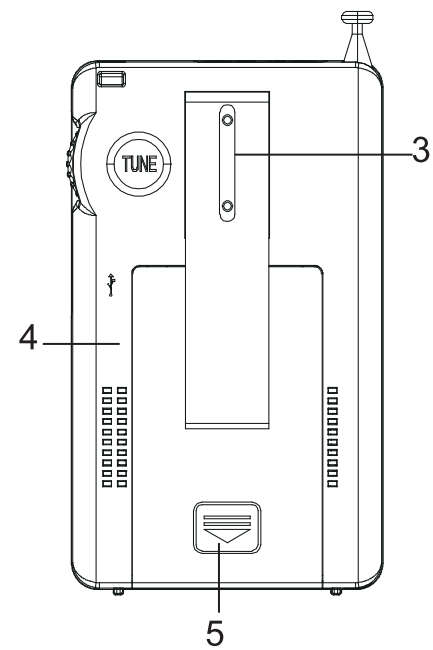
1.Seven-section Telescopic Antenna
2.Digit LED Display
3.Mode Selection
4.Enable Alarm Clock / Band Switch / Automatic Station Search and Storage
5.Set the Lock/Mute Button
6.Enter Menu/Clock/Alarm Settings
7.Station Storing/Select Station Button
8.Set the step value/delete pre-stored station
9.Select station+/ time+
10.Select station-/ time-
11.Volume +
12.Volume -
13.Loudspeaker



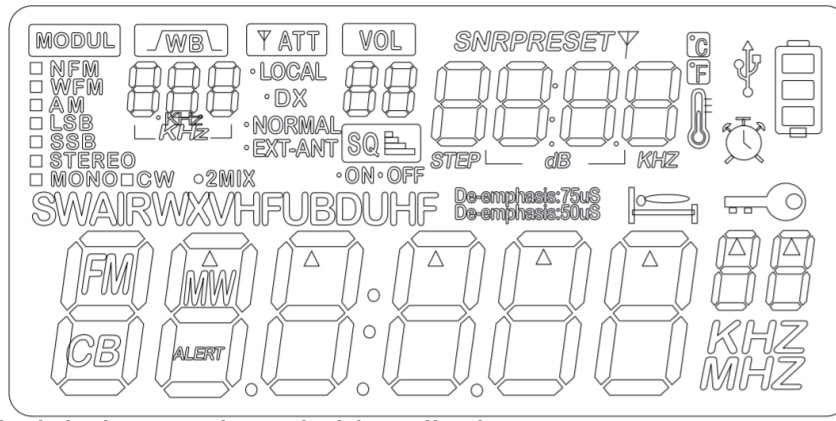
Right view and back view of the product:

1. Tuning Knob
2.Type-C Charging Port
3.Back Clip
4.Battery Cover
5.Tips for pushing down the battery cover





Description of display symbols on the display screen



MODUL: Modulation mode switching display
NFM: Narrowband FM mode
WFM: Broadband FM mode
AM: AM system
LSB: The lower sideband of a single sideband
SSB: The upper band of a single sideband
STEREO: Stereo reception state in FM mode
MONO: FM mono receiving status
2MIX: Secondary frequency conversion display
BW: Bandwidth selection of each band
ATT: Adjustable gain attenuation controller circuit selection: LOCAL/ DX
VOL: Volume level (from 00 to 40)
SQ ON: In squelch reception state
SQ OFF: In non-squelch reception state
SNR: Signal Noise Ratio
PRESET: Pre-stored stations
STEP: Step value settings display
△: Tuning step mark
dB: SNR and reception sensitivity unit
℃: Temperature Celsius
℉: Fahrenheit
: Thermometer
: Charging indication symbol
: Battery power display symbol
: Alarm setting display symbol
: Symbol to set sleep and shutoff time
: Locked state
FM: Frequency modulation receiving mode
CB: City band receiving mode
MW: Medium wave receiving mode
SW: Short wave receiving mode

AIR: Aircraft band receiving mode
WX: Weather band receiving mode
VHF: Very High Frequency mode
UHF: Ultra-high frequency mode
UBD: Customized input frequency mode
ALERT: Alarm display symbol
De-emphasis: 50uS / De-emphasis: 75Us: De-emphasis display
EXT-ANT: Indicator of external antenna

OPERATION CAUTIONS:

Before using this radio, you need to ensure that you follow the following basic safety tips to ensure safe and reliable use of the product.

♦ Read and understand all safety guidelines and usage information.
♦ The original lithium battery is recommended.
♦ It is recommended to use a charging device with the output voltage of DC5V/1A-3A to avoid damage to the lithium battery or the device.
♦ When the lithium battery is not used for a long time, please take it out and keep it separately. Charge it once a month.
♦ Do not expose the product to rain, moisture, drips or splashes of any liquid.
♦ Do not keep the product near high temperature and heat source; do not bake or blow it at high temperature.
♦ Do not expose the product to direct sunlight for a long time.
♦ Do not allow the product to fall or be hit. Do not apply heavy pressure on it.
♦ Note: TV sets, computers, generators, electric motors and other electrical equipment as well as other signal generators may also interfere with signals received by the radio. Please keep a certain distance from the above equipment when you use them.
♦ The antenna of the product is a seven-section telescopic antenna (the exposed part is 56CM). It is relatively long. Please do not bend it and break it.

Instructions for button functions and operations:

1: Install the battery:
Open the battery cover and insert BL5C lithium battery correctly according to its positive and negative polarity and then cover the battery cover.
After installing the battery, the radio backlight will be turn on and show the time status.
2: [POWER] Power ON/OFF/Sleep timer settings:
2.1. Power ON/OFF function

In the time state, press POWER button to turn on the radio.
In power-on state, long press the POWER button to turn off the radio.
2.2. Sleep timer settings:
To activate the Sleep Timer, press and hold the [POWER] button for 2s while the radio is off, the “90” minutes will display on the screen, then short press [POWER] button to select the desired value for 90-80-70-60-50-40-30-20-10 minutes.
After the sleep timer is set, LCD display will show .
Note: The Sleep Timer will automatically shut off the radio after the set amount of time expires
2.3. Enable SNR&RSSI function and time switch display
In radio working state: short press [POWER] to start SNR&RSSI function and time switch display.
This is a reference value for SNR and receiving sensitivity:
Time status:
3.[Lock]: Set the Lock, unlock/Mute operation:
3.1.Setting lock and unlock:
In the radio ON/OFF state, press and hold LOCK button for 2 seconds, it will display “”.
Then, all the buttons could not be operated.
Press and hold [LOCK] again for 2 seconds, when the“”symbol disappear, all buttons can be operated.
3.2. Set the Mute mode:
In radio working state, short press [LOCK] button, “VOL 00” symbol is flashing on the display, radio will enter the mute mode.
In the mute state, short press [LOCK] to restore the current sound level, at this time mute function is disabled.
4.External DC5V input power supply operation:
When the battery symbol shows a space, please connect the Type-C charging cable (factory standard accessories TYPE-C USB cable) to the DC5V power supply to charge the radio.
The battery symbol “ ” will keep flashing during the charging process.
The battery symbol stops flashing and displays full when the radio is fully charged.
5.3.5mm headphone jack operation:
While listening to a radio program, you can use the radio itself loudspeaker. And also a 3.5mm plug earphone. (Use a 3.5mm earphone to avoid disturbing others).
6.Volume [VOL+/-]:
Short press “[VOL+] and [VOL-]”, the volume will increase or decrease by 1 step according to the minimum step.

Long press “[VOL+] and [VOL-]” to increase and decrease the volume rapidly. The adjustable volume range is 00-40 level.
7.[MEMO]: manually storage/ pick up station operation:
7.1: Manual Storage Radio Station:
-Adjust to the desired frequency by pressing [TUN“⇧ . ⇩ ”]
-Long press [MEMO] button for 2 seconds, the PRESET & “P×××”symbol will flash at the same time. (PRESET is the preset station prompt, “P×××” is storage station address prompt.)
-Short press [MEMO], or press [TUN“ ⇧ . ⇩ ”] at the same time to select the frequency address.
-Short press [MEMO], LCD will display “S×××” about 2 seconds, indicating that the target frequency point has been saved to the target memory number.
Note: Each band can store 100 memory stations.
7.2: Methods to pick up stations:
-You can either save station by the 7.1 method or long press the BAND to search the station automatically.
-Short press [MEMO], LCD will display “PRESET” and “P×××”.
-Short press [TUN“ ⇧ . ⇩ ”] to get the frequency of the desired station address number, then you can get the broadcast radio signal .
Note: If no operating within 3 seconds, it will exit selection operation.
8. [TUN“⇧, ⇩”]: Time setting /select station button:
8.1: Time Settings:
In the time state: long press [SET] for 2 seconds, the hour number will flash; short press [TUNE “ ⇧, ⇩ ”] to set the current hour.
Press [SET] button, the minute number will flash, press [TUNE “ ⇧, ⇩ ”] to set the current minute.
Note: The radio time is displayed in 24-hour format
8.2: Alarm clock (as set the automatic power on) settings:
Setting the current time by 8.1 method.
-Press [BAND], the alarm clock symbol “ ” will display.
-Press [BAND] again, the alarm clock symbol will disappear, alarm clock time has been canceled.
-Long press [SET] for 2 seconds, - Alarm hour number “××”will flash, short press [TUNE“ ⇧, ⇩ ”] to set the hour.
Press [SET], alarm minute number“××”will flash, press [TUNE “ ⇧, ⇩ ”] to set the minute.
8.3. Radio Station Selection Operation:
-In radio working state:
If there are pre-stored radio stations, short press【MOME, LCD will have “PRESET”and“P×××”.

Press【MOME】again to cancel the station selection operation, the“PRESET”and“P×××”disappear on the display.
-Press [TUNE“ ⇧ , ⇩ ”] button to increase or decrease the radio station
-Long press [TUNE“ ⇧ , ⇩ ”], radio will enter the searching stations function automatically. When a station is found, it will stop searching and start to play the searched station.
9.[BAND]: band switch/automatic search and storage/alarm clock on/off operation:
9.1: Band Switch:
In radio working state, press [BAND] to switch FM/MW (AM)/SW/AIR/C-B/VHF (UHF)/UBD/WX band
9.2: Automatic station search and storage:
Long press [BAND] for 2s to start the automatic scanning and station storage function.
-The radio will search from the lowest frequency to the highest frequency in the current receiving band and save the stations that have signal.
-It will automatically play the first station after completing the automatic station search and storage
-During the automatic search, “PRESET” and “P x x x” flashes on the display, and the frequency is changing rapidly.
-Note: -During the automatic search, press any key will stop the automatic search.
-During automatic station search and storage, pre-stored stations will be updated.
9.3: In time state: press the [BAND] button to turn on/off the alarm clock (Refer to 8.2 for specific operations)
10.Step/Delete [STEP] Setting :
10.1 In radio working state, press [STEP] to set the s value
The detailed step options are available in each band:
① FM step options: 50.0KHZ,10.0KHZ,100.0KHZ.
② AM frequency: 522-1710KHZ, step options: 9.0KHZ,3.0KHZ,
AM frequency: 520-1710KHZ, step options: 10.0KHZ, 5.0KHZ
③ SW step options: 5.0KHZ, 1.00KHZ, 0.10KHZ, 0.02KHZ, 0.01KHZ.
④ AIR step options: 25.0KHZ, 12.5KHZ, 8.3KHZ
⑤CB step options: 5.00KHZ, 1.00KHZ, 0.10KHZ, 0.02KHZ, 0.01KHZ
⑥VHF/UHF＆UBD step options: 25.0KHZ, 12.5KHZ, 7.5KHZ, 5.0KHZ, 1.0KHZ
Once the step value is selected, the system will default to the last selected step value. Press [TUN“ ⇧ . ⇩ ”] to confirm the selected step value.
10.2: Delete Station
In radio working state, after manually storing the station according to the

above 7.1 or automatic searching and saving the station according to the above 9.2.
-Press [Memo], PRESET “P×××” shows on the display, press [TUN “ ⇧ . ⇩ ”] to select the desired station that you need to delete, long press [STEP] for 2s. “DEL＆E×××” flashes, press [STEP] to delete the current station.
-Within 5 seconds, press [STEP] to delete the next pre-stored station.
If no operation within 5 seconds, the radio will exit the Delete Station setting. Or press [STEP] to exit the setting while PRESET“P”is displayed.
11.Menu/Clock Settings:
11.1.Time Setting: In the shutdown state, long press [SET] for 2s, press [SET], then press “ ⇧ or ⇩ ” to enter the clock setting (refer to details in 8.1).
11.2.In radio working state, press [SET] to enter menu setting (Refer to 14 for specific operations)
11.3.In WX band, long press [SET] to activate ALERT function, the "SCAN" flashes, long press [SET] to exit the Alert function.
Note: SCAN indicates that WX is in the state of silent detection of NOAA Alert state. If there is an Alert signal, sound or alarm will be given out.
12.Tuning Knob:
In radio working state: Rotate the knob to adjust frequency display bit values. When adjusting the value, the corresponding "△" flashes. Press [STEP] to select the desired value. Rotate the knob to quickly select the desired frequency.
13.[MODE] Setting:
13.1. In radio working state, press [SET] to enter setting mode, press [MODE] to select the corresponding sub-menu functions.
13.2. In short wave (SW) & Very-high frequency (VHF) & Aircraft (AIR) band, in the standby mode, press [MODE] key to switch meter band functions.
13.2.1: In the short-wave (SW) receiving state, press [MODE] to switch the meter band, and the frequencies are:
3.20000MHZ, 3.75000MHZ, 3.90000MHZ, 4.75000MHZ, 5.73000MHZ, 7.10000MHZ, 9.25000MHZ, 11.50000MHZ, 3.57000MHZ, 15.03000MHZ, 17.48000MHZ, 18.90000MHZ, 21.45000MHZ, 25.67000MHZ
13.2.2: Press very high frequency (VHF) , then press [MODE] to switch meter band and the frequencies are:
VHF30.00MHZ, VHF136.00MHZ, VHF174.00MHZ, VHF220.00MHZ, UHF409MHZ, UHF446.0620MHZ, UHF462.5620, UHF443.00
13.2.3: In the AIR receiving state, press the [MODE] to switch the meter band and the frequencies are:
118.00MHZ, 123,00MHZ, 128.00MHZ, 133.00MHZ, 138.00MHZ
13.3. Pre-stored Stations Preview
After the 7.1 or 9.2 settings,

-After storing stations in the the receive band(except WX Weather band for North American countries), long press [MODE] for 2s to enter the preview function. "L×××" will flash.
-It switches a station every 5 seconds; press any button to quit the preview function.
Tips: After setting the desired radio station, long press the MODE button to enter the preview mode, which will start from the current lowest stations and switches a station every 5 seconds. You can press any key to quit preview mode.
Radio stations without signal will be skipped automatically during broadcasting. It is more helpful to find the designated radio station quickly and realize the purpose of capturing the preset radio station quickly
13.4. Under the shutdown state, short press [MODE] to switch Fahrenheit/Celsius.
14.Each band setting:
14.1 MW (medium wave) receiving state:
14.1.1. Press [SET]; bandwidth “BW” flashing, short press [MODE] to set the bandwidth 1.80kHz, 1.00kHz, 6.00kHz, 4.00kHz, 3.00kHz, 2.50kHz, and 2.00kHz,
14.1.2. Press [SET] twice. When MW frequency 520KHz or 522KHz flashing, short press the [MODE] to select 520KHz or 522KHz. Short press [SET] to confirm. Default the current setting if there is no operation within five seconds.
Display show 520 indicates that the mid-wave step value is 10kHz (or 5kHz) and that the receiving range is between 520 kHz and 1710kHz.
Display show 522 indicates that the mid-wave step value in FM is 9kHz (or 3kHz) and that the receiving range is between 522 kHz and 1710kHz.
Note: In the United States, Canada, Mexico, and other North and South American countries, the MW step value is set to 10 kHz (or 5 kHz). In other countries, the MW step value is 9 kHz (3 kHz).
14.1.3. Press [SET] 3 times, ATT. (LOCAL) or (NORMAL) of ATT starts flashing, then short press the MODE key to select DX/LOCAL/NORMAL. Then press [SET], and ATT DX/LOCAL/NORMAL will stop flashing.
It may exit (DX) or (LOCAL) to switch operations and default the current setting if there is no operation within five seconds.
14.2 FM receiving state:
14.2.1 Press [SET]. Bandwidth “BW” flashes, short press [MODE] to set the bandwidth to be 40KHz, 110KHz, 84KHz, and 60KHz.
14.2.2. Press [SET] twice. FM frequency 64.00MHz, 76.00MHz, or 87.5MHz flashes, press the [MODE] key to select 64.00MHZ, 76.00MHZ, and 87.50MHZ. Then Short press SET to confirm current settings. Default the

current setting if there is no operation within five seconds.
When 64.00MHz is displayed, it means that FM receiving range is 64.00-108.00MHz at this time.
When 76.00MHz is displayed, it means that FM receiving range is 76.00-108.00MHz at this time.
When 87.50MHz is displayed, it means the FM receiving range is 87.50-108.00MHz at this time.
14.2.3. Press [SET] 3 times, ATT, DX, LOCAL or NORMAL will flash; then press [MODE], to select ATT, DX, LOCAL or NORMAL.
-After it is selected, press the [SET] key to confirm the current selection. ATT, DX, LOCAL or NORMAL stops flashing. Default the current setting if there is no operation within five seconds.
14.2.4. Press [SET] 4 times, “De-emphasis: 50us or Demphasis: 75us” will flash. Short press [MODE] to choose De-emphasis: 50us or Demphasis: 75us; press SET again to confirm the current operated. De-emphasis: 50us or Demphasis: 75us words will stop flashing. Default the current setting if there is no operation within five seconds.
14.2.5. Press [SET] 5 times, “·STEREO” or “·MONO” will flash; then, short press MODE to select the “·STEREO” or “·MONO” setting.
Press SET, to confirm the current operation. Default the current setting if there is no operation within five seconds.
14.3: SW receiving state:
14.3.1: Press [SET], bandwidth “BW” flashes, short press [MODE] to set the bandwidth to be 3.00KHZ, 2.50KHZ, 2.00KHZ, 1.80KHZ, 1.00KHZ, 6.00KHZ, and 4.00KHZ,
14.3.2. Press [SET] twice, and “SQ.OFF.00.ON” flashes.
Press “MODE” to select (SQ.ON.01~SQ.ON.09)SQ level, which has 9 levels. Then short press SET to confirm the SQ level you need. “VOL SQ” will be flashing on the screen.
Default the current setting if there is no operation within five seconds.
-If the SQ function is not required, press the above operation to switch to VOL SQ OFF to turn OFF the automatic noise function.
14.3.3. Press [SET] 3 times, ATT, NORMAL, DX, or LOCAL is flashing.
-Press [MODE] to select ATT, NORMAL, DX, or LOCAL setting.
After that, short press [SET] to confirm the setting. ATT, NORMAL, DX, or LOCAL will stop flashing. It may exit (DX) or (LOCAL) to switch operations and default the current setting if there is no operation within five seconds.
14.3.4. Press [SET] 4 times.
“·AM” display flashes and SW works on the normal short-wave receiving mode.
-Short press [MODE], the "·SSB" flash to enter the upper side search mode

of the single sideband.
SSB search function will end up 5 seconds later.
-When "·SSB" flashing, short press [MODE], the lower sideband "·LSB" flashing or not flashing, or the "·SSB" flashing, short press [BAND], it can switch to SW Band.
On SW state, tune off the radio, and then tune on the radio, LSB or SSB will enter the Searching mode automatically.
If you would like to exit the SSB and LSB Searching mode, short press the [SET] 4 times, press lightly [MODE], and it can switch to "·AM" flash. And then, press lightly the [SET], and it can exit the Searching mode of LSB and SSB.
14.4: AIR (Airband Reception) Status:
14.4.1. Press [SET]. When the bandwidth (BW) flashes, short press [MODE] to set the bandwidth to be 3.00KHz, 2.50KHz, 2.00KHz, 1.80KHz, 1.00KHz, 6.00KHz, and 4.00KHz.
14.4.2. Press [SET] twice, SQ (SQ.OFF.00) will flash; then, short press [MODE] to select SQ of (SQ.ON.01~SQ.ON.09). Short press [SET], "VOL SQ" stops flashing.
-And also no operation within 5 seconds, default current operation. short press (MODE) to select (SQ.OFF.00) and the SQ will be closed.
14.4.3: Press [SET] 3 times, ATT/DX/LOCAL/NORMAL display will be flashing. -Then, short press [SET] to select ATT/DX/LOCAL/NORMAL settings.
-Short press [SET] again, ATT/DX/LOCAL/NORMAL display will stop flashing. (DX) or (LOCAL) will exit if there is no operation within five seconds and the work will be switched to be the current default setting.
14.5: CB (City Band Reception) Status:
14.5.1: Press [SET]. When the bandwidth (BW) number flashes, short press [MODE] to set the bandwidth to be 3.00KHZ, 2.50KHZ, 2.00KHZ, 1.80KHZ, 1.00KHZ, 6.00KHZ, and 4.00KHZ.
14.5.2: Press [SET] twice and the SQ (SQ.OFF.00) will flash. Then short press [MODE] to select SQ of (SQ.ON.01~SQ.ON.09). If the SQ OFF is not needed, please short press [SET] for the second time. When the SQ (SQ.ON.01~SQ.ON.09) is flashing, short press MODE to select (SQ.OFF.00) to turn off the SQ.
14.5.3: Press [SET] 3 times, ATT/DX/LOCAL/NORMAL will flash, and then short press [MODE] to select ATT/DX/LOCAL/NORMAL setting.
-Short press [SET]. ATT/DX/LOCAL/NORMAL stops flashing.
ATT/DX/LOCAL/NORMAL will exit if there is no operation within five seconds and the work will be switched to be the current default setting
14.6: VHF(UHF) state:

14.6.1. Press [SET]. When “BW” flashes, short press [MODE] to set the bandwidth to be 1.70KHz, 4.50KHz, 3.75KHz, 2.50KHz.
14.6.2. Press [SET] twice, and the SQ setting (SQ.OFF/ON.00) flashes. Then, short press [MODE] to select SQ of (SQ.ON.01~SQ.ON.09).
If the SQ OFF is not needed, when you short press [SET] for the second time and the SQ (SQ.ON.01~SQ.ON.09) flashes, please short press (MODE) until (SQ.OFF.00) is displayed. At this time, the SQ OFF will be closed (Note: the SQ OFF is set to adjustable 9 levels and the level can be selected according to actual demands.)
14.6.3. Press [SET] 3 times, ATT/DX/LOCAL/NORMAL flashing, and Press [MODE] to choose the DX/LOCAL/NORMAL.
-Then, short press [SET], ATT/DX/LOCAL/NORMAL stop flashing to confirm the current operation. DX/LOCAL/ NORMAL will exit if there is no operation within five seconds and the work will be switched to be the current default setting.
14.7 UBD (Customized Receiving) Status:
14.7.1. Press [SET]. When “BW” flashes, short press the [MODE] key to set the bandwidth to be 1.70KHz, 4.50KHz, 3.75KHz, and 2.50KHz.
14.7.2. Press [SET] twice, and the SQ (SQ.OFF/ON.00) flashes. Then, short press [MODE] to select SQ levels of (SQ.ON.01~SQ.ON.09).
press [SET], ‘VOL SQ’ stop flashing to confirm the current setting.
-If the SQ function is not required, press the above operation to switch to VOL SQ OFF to turn OFF the automatic noise function.
14.7.3. Press [SET] 3 times, ATT/DX/LOCAL/NORMAL will flash, and then short press [MODE] to select ATT/DX/LOCAL/NORMAL setting.
-Press [SET]. ATT/DX/LOCAL/NORMAL stops flashing. ATT/DX/LOCAL/NORMAL will exit if there is no operation within five seconds and the work will be switched to be the current default setting.
14.7.4. Press [SET] 4 times, the first number in front of UBD will flash.
-Press [MODE], and the display show the low-end “ꜩoP“ symbol. Press “ ⇧ or ⇩ ” to adjust the data, press [STEP] to move the cursor position, then press “ ⇧ or ⇩ ” to set the desired low-end “ꜩoP” frequency range.
-Short press [MODE] displays a high-end “ꜩoP ” symbol. Press [TUN“ ⇧ or ⇩ ”] to adjust the data, and press [STEP] to move the cursor position, then press “ or ” to set the desired high-end “ ꜩoP ” frequency range.
-Short press [SET] to confirm the setting. (Adjustable frequency range: 30MHZ-520MHZ)
1.WX(North American weather band):
WX has 7 fixed frequencies:
162.400MHZ, 162.4250MHZ, 162.4500MHZ, 162.4750MHZ, 162.5000MHZ, 162.5250MHZ, 162.5500MHZ

Under WX state, press [TUN“ ⇧ . ⇩ ”] to select the frequency needed or rotate the shuttle cycle to select the desired frequency point.
Long press SET to enter ALERT mode and “SCAN” will be displayed.....
When the warning signals are received, the warning receiving channel will be automatically started. Long press SET again to remove the warning receiving mode.

About the orange backlight:

In order to facilitate use at night or in dark places, this radio is specially equipped with warm orange light. When the clock is off, press any key to wake up the LCD display & the backlight will automatically turn on. If you do not operate the LCD & backlight within 10 seconds, it will automatically turn on. Off, the display goes off. When the radio is turned on, the backlight will automatically turn off if no operation is performed within 10 seconds (it is not limited by the 10-second backlight when automatically searching for a radio station, and the backlight will automatically turn off after 10 seconds of stopping the automatic station search)

Use of Antennas

1.When tuning in FM, SW, VHF, UHF, AIR, UBD
This machine adopts a seven-section antenna to receive FM broadcasts. When you listen to the broadcast, you should pull out the antenna or insert an external antenna with a 3.5mm hole 3.5mm.
Note: If there is strong radio interference, the signal reception will be messed up. You can shorten the antenna or set ATT Local mode.
1.Receive medium-wave radio
This machine adopts a built-in magnetic receiving antenna which has some direction in its receiving signals. Therefore, when you listen to a medium wave, you should properly rotate the radio body so as to find the best receiving position.

Main technical parameters

US

Technical Data	
Frequency Range	Sensitivity
FM:88-108MHZ	1uv
AM:540-1700KHZ	1.5mV/M
SW:3.200-30.00MHZ	10uV
CB:26.965-27.405MHZ	10dBuV
AIR:118.00-137.00MHZ	1uv
VHF UHF:20.000-520MHZ	-9dBuV
VHF 30.00-223.00MHZ	-9dBuV
VHF 144.00-148.00MHZ	-9dBuV
VHF 156.025-163.275MHZ	-9dBuV
UHF 430.00-520.00MHZ	-9dBuV
WX:162.400-162.550MHZ	-9dBuV

Demodulation Method	Band
WFW	FM Band
AM	MW Band
AM/SSB/LSB	SW Band
AM/NFM	CITY Band
AM	AIR Band
NFM	Wide frequency reception band （include VHF，UHF）
WFM	VHF
NFM	Amateur Band
NFM	International Maritime Channel
NFM	Amateur Band
NFM	NOAA WX

Size	111X60X20MM
Lithium Battery	BL5C 1000mAh 3.7v 3.7WH
Speaker	Φ40MM 8Ω 2W
Headphone Jack	3.5MM Stereo input
Antenna hole	3.5MM

Europe

Technical Data	
Frequency Range	Sensitivity
FM:87.5-108MHZ	1uv
LF： 148.5 - 283.5 kHz; MF:526.5 – 1606.5 kHz;HF: 3950 – 4000 kHz; 5900 – 6200 kHz; 7200 –7450 kHz; 9400 – 9900 kHz; 11600 kHz - 12100 kHz, 13570 – 13870 kHz; 15100 - 15800 kHz17480 - 17900 kHz; 18900 -19020 kHz, 21450 – 21850 kHz; 25670 – 26100 KhZ;	1.5mV/M
SW:3.200-30.00MHZ	10uV
CB:26.965-27.41MHZ	10dBuV
AIR:118.00-136.975MHZ	1uv
VHF UHF:30.000-520MHZ	-9dBuV
VHF 30.00-223.00MHZ	-9dBuV
VHF 144.00-146.00MHZ	-9dBuV
VHF 156.025-163.275MHZ	-9dBuV
UHF 430.00-440.00MHZ	-9dBuV

Demodulation Method	Band
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Size	111X60X20MM
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Speaker	Φ40MM 8Ω 2W
Headphone Jack	3.5MM Stereo
Antenna hole	3.5MM